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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Complete if Known				
Application Number	10/684,975			
Filing Date	October 14, 2003			
First Named Inventor	David Alford Burgoon			
Art Unit				
Examiner Name				
Attorney Docket Number	BAT 0072 PA/40078.248			

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Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
50	<del> </del>	Number-Kind Code <sup>2 (d known)</sup> US- 4,620,286	10/28/1986	Smith et al.	
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	<b>├</b> ─	US- 4,774,681	09/27/1988	Frisch	-
	<u> </u>	US- 4,910,772	03/20/1990	Matias et al.	
	<u> </u>	<sup>US-</sup> 5,058,158	10/15/1991	Matias et al.	
	l	<sup>US-</sup> 5,251,131	10/05/1993	Masand et al.	
		US- 5,257,206	10/26/1993	Hanson	
		<sup>US-</sup> 5,257,365	10/26/1993	Powers et al.	
		<sup>US-</sup> 5,270,957	12/14/1993	Murray	
		<sup>US-</sup> 5,335,345	08/02/1994	Frieder et al.	
		<sup>US-</sup> 5,361,379	11/01/1994	White	
		US- 5,379,422	01/03/1995	Antoshenkov	
		US- 5,448,733	09/05/1995	Satoh et al.	
		<sup>US-</sup> 5,475,813	12/12/1995	Cieslak et al.	
		<sup>US-</sup> 5,481,704	01/02/1996	Pellicano	
		<sup>US-</sup> 5,488,725	01/30/1996	Turtle et al.	
		US- 5,524,240	06/04/1996	Barbara et al.	
		<sup>US-</sup> 5,537,589	07/16/1996	Dalal	
		US- 5,546,502	08/13/1996	Hart et al.	
N N		US- 5,563,982	10/08/1996	Wang et al.	

		FORE	IGN PATENT DOC	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	١.
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T°
D6		WO 95/30981	11/16/1995	Hutson		
1		WO 95/32477	11/30/1995	Potter et al.		<u> </u>
		EP 0 965 928 A2	12/22/1999	Acharya et al.		
		WO 00/03315	01/20/2000	Risvik		<u> </u>
V		WO 00/65479	11/20/2000	Fayyad et al.		
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Examiner Signature	Data	Date Considered	5/22/06	

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Sheet

Application Number 10/684,975 Filing Date October 14, 2003 First Named Inventor David Alford Burgoon Art Unit

Complete if Known

(Use as many sheets as necessary)

Attorney Docket Number BAT 0072 PA/40078.248

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Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (# Anown)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
06	<u> </u>	US- 5,581,704	12/03/1996	Barbara et al.	
1	<del>                                     </del>	<sup>US-</sup> 5,583,950	12/10/1996	Prokoski	
	İ	US- 5,596,493	01/21/1997	Tone et al.	
		US- 5,603,022	02/11/1997	Ng et al.	
$\top$		US- 5,634,049	05/27/1997	Pitkin	
		US- 5,664,171	09/02/1997	Agrawal et al.	
		US- 5,666,525	09/09/1997	Ross	
		US- 5,675,785	10/07/1997	Hall et al.	
		US- 5,675,786	10/07/1997	McKee et al.	
1		US- 5,689,696	11/18/1997	Gibbons et al.	
		US- 5,692,171	11/25/1997	Andres	
		US- 5,721,896	02/24/1998	Ganguly et al.	
1		US- 5,737,733	04/07/1998	Eller	
		US- 5,752,241	05/12/1998	Cohen	
		<sup>US-</sup> 5,765,158	06/09/1998	Burrows	
1		<sup>US-</sup> 5,799,300	08/25/1998	Agrawal et al.	
		<sup>US-</sup> 5,812,999	09/22/1998	Tateno	
7		US- 5,870,752	02/09/1999	Gibbons et al.	
V		US- 5,878,426	03/02/1999	Plasek et al.	

		FORE	IGN PATENT DOCU	MENTS		
Examiner tnitials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
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Sheet

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Application Number	10/684,975				
Filing Date	October 14, 2003				
First Named Inventor	David Alford Burgoon				
Art Unit					
Examiner Name					
Attorney Docket Number	BAT 0072 PA/40078.248	フ			

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06		<sup>US-</sup> 5,890,150	03/30/1999	Ushijima et al.	•
1		<sup>US-</sup> 5,890,151	03/30/1999	Agrawal et al.	
		<sup>US-</sup> 5,893,090	04/05/1999	Friedman et al.	
1		US- 5,946,692	08/31/1999	Faloutsos et al.	
		<sup>US-</sup> 5,956,707	09/21/1999	Chu	
		<sup>US-</sup> 5,987,467	11/16/1999	Ross et al.	
		<sup>US-</sup> 5,999,928	12/07/1999	Yan	
		US- 6,012,064	01/04/2000	Gibbons et al.	
	1	US- 6,026,390	02/15/2000	Ross et al.	
		<sup>US-</sup> 6,026,391	02/15/2000	Osborn et al.	
		<sup>US-</sup> 6,032,144	02/29/2000	Srivastava et al.	
		US- 6,052,689	04/18/2000	Muthukrishnan et al.	
		US- 6,065,007	05/16/2000	Muthukrishnan et al.	
		<sup>US-</sup> 6,092,072	08/18/2000	Guha et al.	
		US- 6,108,647	08/22/2000	Poosala et al.	
	-	<sup>US-</sup> 6,125,360	09/26/2000	Witkowski et al.	
		·US- 6,134,543	10/17/2000	Witkowski et al.	
	1	<sup>US-</sup> 6,175,836	01/16/2001	Aldred	
7/		<sup>US-</sup> 6,240,407	05/29/2001	Chang et al.	

		FORE	<b>IGN PATENT DOCU</b>	MENTS		
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Art Unit				
Examiner Name				
Attorney Docket Number	BAT 0072 PA/40078.248	_		

			U. S. PATENT	T DOCUMENTS	
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76	-	US- 6,272,498	08/07/2001	Muthukrishnan et al.	
<u> </u>		US- 6,278,989	08/21/2001	Chaudhuri et al.	
		US- 6,278,998	08/21/2001	Ozden et al.	
		US- 6,282,570	08/28/2001	Leung et al.	
		US- 2002/0010706	01/24/2002	Brickell et al.	
		US- 6,343,288	01/29/2002	Lindsay et al.	
		US- 6,353,832	03/05/2002	Acharya et al.	
		<sup>US-</sup> 6,360,214	03/19/2002	Ellis et al.	
		<sup>US-</sup> 6,366,901	04/02/2002	Ellis	
		<sup>US-</sup> 6,374,234	04/16/2002	Netz	
		<sup>US-</sup> 2002/0087518	07/04/2002	Ellis et al.	
I		<sup>US-</sup> 2002/0103793	08/01/2002	Koller et al.	
		<sup>US-</sup> 6,438,538	08/20/2002	Goldring	
		<sup>US-</sup> 2002/0123979	09/05/2002	Chaudhuri et al.	
		<sup>US-</sup> 2002/0124001	09/05/2002	Chaudhuri et al.	
		<sup>US-</sup> 6,473,084	10/29/2002	Phillips et al.	
		<sup>US-</sup> 6,477,534	11/05/2002	Acharya et al.	
		<sup>US-</sup> 6,480,836	11/12/2002	Colby et al.	
		US- 6.484.159	11/19/2002	Mumick et al.	

	FORE	IGN PATENT DOCU	MENTS		
Cite No.1	Foreign Patent Document			Pages, Columns, Lines, Where Relevant Passages	
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Substitute for form 1449/PTO	Application Number	10/684,975
INFORMATION DISCLOSURE	Filing Date	October 14, 2003
INFORMATION DISCLOSURE	First Nameo inventor	David Alford Burgoon
STATEMENT BY APPLICANT	Art Unit	
(Use as many sheets as necessary)	Examiner Name	
Sheet 5 of 8	Attorney Docket Number	BAT 0072 PA/40078.248

U. S. PATENT DOCUMENTS							
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2/		Number-Kind Code <sup>2 (f known)</sup> US- 2002/0178151	11/28/2002	Chaudhuri et al.	<u> </u>		
10	<del> </del>	US- 2002/0184211	12/05/2002	Gruenwald			
{	<del></del>	US- 6,493,699	12/10/2002	Colby et al.			
		US- 6,507,840	01/14/2003	Ioannidis et al.			
	<del> </del>	US- 2003/0018615	01/23/2003	Chaudhuri et al.	<u> </u>		
V	<del>                                     </del>	<sup>US-</sup> 6,519,604	02/11/2003	Acharya et al.			
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		NON PATENT LITERATURE DOCUMENTS						
Initials* No.1 the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s number(s), publisher, city and/or country where published.								
		ACHARYA et al.; Join Synopses for Approximate Query Answering; Bell Laboratories; New Jersey						
		VITTER; An Efficient Algorithm for Sequential Random Sampling; pp. 1-11						
		ZAKI et al.; Evaluation of Sampling for Data Mining of Association Rules; pp. 1-9						
		GUNOPULOS et al.; Approximating Multi-Dimensional Aggregate Range Queries Over Real Attributes; pp. 1-12						
		HAAS; Hoeffding tnequalities for Join-Selectivity Estimation and Online Aggregation; Research Report; August 1996; pp. 1-29; IBM Research Division; California						
		LING et al.; An Evaluation of Sampling-Based Size Estimation Methods for Selections in Database Systems; 1995; pp. 532-539; IEEE						
		ACHARYA et al.; Aqua: A Fast Decision Support System Using Approximate Query Answers; Proceedings of the 25th VLDB Conference; 1999; pp. 754-757; Scotland						
		AMBITE et al.; Fast Approximate Evaluation of OLAP Queries for Integrated Statistical Data; pp. 1-8						
		ABDULLA et al.; Approximate Ad-Hoc Query Engine for Simulation Data; 2001; pp. 1-2						
1		GANTI et al.; CICLES: Self-Tuning Samples for Approximate Query Answering; Proceedings of the 26th VLDB Conference; 2000; pp. 1-12; Egypt						

Examiner	1901	Date	5177166
Signature	Phase services	Considered	7/00/00

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Substitute for form 1449/PTO				C mplete if Kn wn				
Substitute for form 1443/F TO				Application Number	10/684,975			
INFO	ORMATION	I DIS	CLOSURE	Filing Date	October 14, 2003			
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				Art Unit				
	(Use as many she	ets as n	ecessary)	Examiner Name				
Sheet	7	of	8	Attorney Docket Number	BAT 0072 PA/40078.248			

		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1							
06		GIBBONS et al.; Aqua Project White Paper; 1997; pp. 1-28; New Jersey						
		GIBBONS et al.; New Sampling-Based Summary Statistics for Improving Approximate Query Answers; pp. 1-12						
		HAAS et al.; Fixed-Precision Estimation of Join Selectivity; 1993; pp. 190-201; Washington, D.C.	_					
		SHATKAY et al.; Approximate Queries and Representations for Large Data Sequences; 1996; pp. 536-545; IEEE						
		WALKER; On Retrieval From A Small Version Of A Large Data Base; 1980; pp. 47-54; IEEE						
		HOU et al.; Statistical Estimators for Aggregate Relational Algebra Queries; 1991; pp. 600-654; Vol. 16, No. 4; ACM Transactions on Database Systems						
		OLKEN et al.; Sampling From Spatial Databases; 1993; pp. 199-208; IEEE						
		HOU et al.; Statistical Estimators For Relational Algebra Expressions; 1988; pp. 276-287; ACM						
V		KIVINEN et al.; The Power Of Sampling In Knowledge Discovery; 1994; pp. 77-85; ACM; Minnesota						

Examiner	1 / 1	Date	5/27/18/2
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INF	ORMATION	N DISC	CLOSURE	Filing Date	October 14, 2003		
STA	STATEMENT BY APPLICANT			First Named Inventor	David Alford Burgoon		
				Art Unit			
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No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	ROWE; Antisampling For Estimation: An Overview; 1985; pp. 1-20; IEEE			
	OLKEN et al.; Random Sampling From Databases - A Survey; 1994; 1-54; California			
	OLKEN et al.; Maintenance Of Materialized Views Of Sampling Queries; 1992; pp. 632-641; IEEE			
	OLKEN et al.; Simple Random Sampling From Relational Databases; Proceedings of the Twelfth International Conference on Very Large Data Bases; 1986; pp. 160-169; Kyoto			
<u> </u>	VRBSKY; Approximate: A Query Processor That Produces Monotonically Improving Approximate Answers; Thesis; 1993; pp. 1-124; Illinois			
	HELLERSTEIN et al.; Online Aggregation; ACM SIGMOD International Conference On Management; 1997; pp. 1-12; Arizona			
	DATE; An Introduction To Database Systems, Fifth Edition; 1991; pp. 152-155; Addison-Wesley Publishing Company	_		
	Informix Red Brick Decision Server; Technical Brief; pp. 1-4; 2000			
		ROWE; Antisampling For Estimation: An Overview; 1985; pp. 1-20; IEEE  OLKEN et al.; Random Sampling From Databases - A Survey; 1994; 1-54; California  OLKEN et al.; Maintenance Of Materialized Views Of Sampling Queries; 1992; pp. 632-641; IEEE  OLKEN et al.; Simple Random Sampling From Relational Databases; Proceedings of the Twelfth International Conference on Very Large Data Bases; 1986; pp. 160-169; Kyoto  VRBSKY; Approximate: A Query Processor That Produces Monotonically Improving Approximate Answers; Thesis; 1993; pp. 1-124; Illinois  HELLERSTEIN et al.; Online Aggregation; ACM SIGMOD International Conference On Management; 1997; pp. 1-12; Arizona  DATE; An Introduction To Database Systems, Fifth Edition; 1991; pp. 152-155; Addison-Wesley Publishing Company		

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INFORMATION DISCLOSURE				Filing Date	October 14, 2003	
STA	TEMENT	BY A	PPLICANT	First Named Inventor	David Alford Burgoon	
	##	<b>.</b>		Art Unit	2186	
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Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
7)6		HOU, WEN-CHI: "A Framework for Statistical Data Mining with Summary Tables", SCIENTIFIC AND STATISTICAL DATABASE MANAGEMENT, 1999. ELEVENTH INTERNATIONAL CONFERENCE ON CLEVELAND, OH, USA, 28-30 JULY 1999, pgs. 14-23	

Examiner CA ,	Date	C1-061
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